

Subject:  
Voluntary Actions  
From:  
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Gentlepeople...I think that it is important is include verbiage that indicates that the science of impact of carbon emissions is in flux and will continue to be in flux for a long time.

It is important to build on the things that we understand and not be forced in a direction that is driven by partisans. Therefore actions that improve the efficiency of carbon emissions that don't cause environmental damage on their own are welcomed. However, we should withhold judgment on things that require a sea change for implement. Case in point is the wholesale replacement of gasoline with ethanol that is produced from green fields or replacing food crops. In addition to producing more total moles of GHGs than gasoline (water vapor, CO<sub>2</sub>, and NO<sub>2</sub>) ethanol causes birth defects and increases the volume of historic air pollutants like NO<sub>x</sub>.

The science of climate change is being driven by partisans that see either political or monetary benefits to move the argument towards their point of view. Only recently has information that wind turbines alter local climate and increased demand for alternative fuels is destroying the equatorial belt come into consciousness. Scientific chatter about the fact that 90% of the earth's GHG is not even addressed by AB 32 makes one wonder about the assumption that the production of water vapor has no impact on global warming because the warming effects are local and the scientific community cannot model the phenomenon.

The IPCC and the EPA agree that more than 70% of all warming effects of GHGs come from water vapor but this data complicates the selling of the End of Times so we use CO<sub>2</sub> as the bad boy and we concentrate our efforts to save the world on 3% of the GHGs that everyone agrees produce less than 30% of the greenhouse warming phenomenon and only a tiny portion of the warming of the atmosphere. So if the public was treated to the knowledge that anthropogenic CO<sub>2</sub> is less than 3% of all CO<sub>2</sub> emissions and that this volume only represented 3% of GHGs, we might get some discussions about policies that would really lead to a reasonable solution. Otherwise someone will eventually mention that almost all heating of the atmosphere is directly related to the number of moles of gas in the troposphere and the adiabatic compression forces of gravity. It won't be long for

physics geeks to note that anything that changes net moles of atmospheric gas changes the temperature of the atmosphere and that if all CO<sub>2</sub> that has been added to the atmosphere since the last ice age was removed, we probably could not see a change in temperature that is related to the greenhouse effect due to cooling from Newtonian physics. The same impact could be accomplished by sequestering N<sub>2</sub> or O<sub>2</sub>.

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